

STATE WATER CONSERVATION COMMISSION
MINUTES OF MEETING
Held in Office of State Water Commission
Bismarck, North Dakota
October 7, 1959

A regular meeting of the North Dakota State Water Conservation Commission was called to order on October 7, 1959 in the office of the Commission, State Capitol Building, to consider routine business matters. The following were present:

MEMBERS OF THE STATE WATER COMMISSION:

Earle F. Tucker, Vice Chairman, Bismarck
Einar Dahl, Member from Watford City
Oscar Lunseth, Member from Grand Forks
A. R. Weinhandl, Member from Minot
Math Dahl, Commissioner of Agriculture & Labor, Bismarck
Milo W. Hoisveen, Secretary & Chief Engineer, State Engineer, Bismarck

OTHERS PRESENT:

J. C. Eaton, Denbigh
Richard Oium, Towner

The meeting was called to order by Vice Chairman Earle F. Tucker at 3:00 p.m. with Commissioners Einar Dahl, Math Dahl, A. R. Weinhandl, Oscar Lunseth and Secretary Hoisveen present.

**REPAIR EATON
DAM**

Messrs. J. C. Eaton and Richard Oium appeared on behalf of the Eaton Flood Irrigation District pertaining to repair work on the Eaton Dam.

Secretary Hoisveen stated that the Eaton Dam was constructed about 1936 with public works funds, and the local people supplying 60% of the cost. It was constructed under the direction of the State Engineer's Department at that time. They are now irrigating about 8000 acres. Water is diverted into impoundments. The structure is quite different from any other dam constructed in North Dakota, as it is made from a series of 8 tubes six feet in diameter. The lower tube is leaking at present. This is causing considerable erosion of the material constituting the dam. The Commission did some work on this dam about a year ago and the present trouble could be traceable to some blasting the crew did at that time in accordance with requests from the local representatives. The condition of the lower tube cannot be determined until some of the loose fill materials are removed and we enter the structure. The project deserves consideration. The leaky pipe could be repaired with concrete and pneumatically sealed. Mr. Eaton explained the difficulties in the dam and what would be necessary to make the dam workable. He felt the gate should be mounted on the exterior and set in concrete. Mr. Eaton would like to have whatever diameter pipe possible

which could be inserted in the present pipe. A cost estimate has been made by Assistant State Engineer Timm. An accurate estimate is difficult to make until the situation has been explored in the interior of the dam. Discussion on Pond 1. The cost estimate that was made did not include any work on Pond 1. The cost estimate for the repair of Eaton Dam was fixed at \$14,300. A crew will be ready to take over in a short time.

Mr. Eaton also stated that in 1934 a survey was made and bench marks were set up. Since that time these bench marks have disappeared and there is nothing to go on.

The Commission's participation in the dam would be on a 50-50 basis, unless there is another group who would participate also. It was moved by Commissioner Lunseth and seconded by Commissioner Math Dahl that the Commission participate in the Eaton Dam construction and survey on a 50-50 basis. A voice vote was taken and all commissioners voted aye and said motion was carried.

**APPROVAL OF
MINUTES**

It was moved by Commissioner Einar Dahl and seconded by Commissioner Lunseth that the minutes of the August 28, 1959 meeting be approved and filed in the office of the State Water Conservation Commission. All members voted aye and said motion was carried.

**FINANCIAL STATE-
MENTS FOR AUGUST
AND SEPTEMBER**

Commissioner Tucker made a motion which was seconded by Commissioner Math Dahl that the Financial Statements for August and September 1959 be approved. All commission members voted aye and said motion was carried.

**DRAINAGE AND
WATERSHED
PROJECTS**

A letter was read from the Maple River Water Conservation and Flood Control District requesting aid from the State Water Commission in connection with the watershed project. Their project is being carried on with the cooperation of the Soil Conservation Service. Several other such requests have been received in recent years. Secretary Hoisveen stated that he did not give the district encouragement as to the Commission's participation in this project as the Commission had previously expressed concern over participation in the right-of-way purchases on legal drains as well as watershed projects. Mr. Hoisveen was requested to obtain a list of the watershed projects which were reviewed by the Commission in the April 10, 1959 meeting. The following list was again reviewed by the Commission members. Thirty-three projects were listed as being under construction or proposed for construction. The projects are as follows:

Watershed	Area Acres	County	Sponsoring Local Organizations	Date Approval for operations	Estimated Installation Costs		
					Federal	Non-federal	Total
Elm River	221,696	Trail Steele Cass	West Trail SCD, East Trail SCD, Steele County SCD, Trail County Water Conservation and Flood Control District	7-7-58	\$762,608	\$762,710	\$1,489,318
Swan- Buffalo	203,520	Cass	Maple River SCD, Northwest Cass SCD, Rush River SCD, Southeast Cass SCD, Maple River Water Conservation & Flood Control District	5-16-58	\$717,289	\$900,806	\$1,618,095
Towaukon	93,782	Sargent, N.Dak, Marshall, S.Dak.	Wild Rice SCD, Sargent County Water Conservation & Flood Control District, Marshall County SCD	2-2-59	\$520,299	\$431,486	\$ 951,785
Wild Rice Creek	233,522	Sargent, N.Dak, Marshall, S.Dak.	Wild Rice SCD, Sargent County SCD, Sargent County Water Conservation and Flood Control District, Marshall County SCD	6-19-58	\$617,929	\$576,361	\$1,248,290*

*Wild Rice Creek project is partly in North Dakota and partly in South Dakota. Federal cost for the portion in North Dakota is estimated at \$4,930 and the non-Federal cost is estimated at \$155,053.

Six other watersheds have been approved for planning. The names, size in acres location by county, and the date planning was authorized are:

<u>Watershed</u>	<u>Area Acres</u>	<u>County</u>	<u>Date authorized for planning</u>
Louse Creek	240,000	Grant Morton	4-15-55
ElkCreek-Storm Lake	210 000	Richland Sargent Ransom	6-20-56
North Branch, Forest River	119,600	Walsh	4-30-57
Lower Forest River	240,700	Walsh Grand Forks	8-1-57
Middle-South Branch Forest River	190,886	Walsh Nelson Grand Forks	8-1-57
North Walhalla Tributaries of the Pembina River	48,100	Pembina Cavalier	8-1-57

Planning assistance has been terminated on the Louse Creek Watershed because a feasible watershed plan could not be developed at this time. Planning has been suspended on the Elk Creek-Storm Lake Watershed because of inadequate local interest. Studies necessary for the development of a work plan are under way on the other watersheds.

Twenty-two other applications for assistance have been received from North Dakota. Their names, size, location by county, and the date received are as follows:

<u>Watershed</u>	<u>Size (acres)</u>	<u>County</u>	<u>Date Received</u>
Antelope	237,320	Richland	2-7-55
Crooked Creek	110,000	Sargent	2-7-55
Duck creek	116,480	Adams	2-7-55
Edmore Coulee	237,440	Ramsey, Cavalier and Walsh	3-29-56
Flood Plains of Park River	233,330	Pembina,Walsh	4-15-57

Watershed	Size (acres)	County	Date Received
Lower Maple River	249,000	Barnes, Ransom and Cass	2-7-55
Lower Turtle River	216,600	Grand Forks	6-18-56
Maple River (West Branch)	86,400	Dickey LaMoure	7-6-56
Middle Maple River	211,840	Cass, Barnes	2-7-55
North Branch of the Park River	144 813	Cavalier, Pembina	4-15-57
Oak Creek	137,600	Bottineau, Mc- Henry, Rolette	2-7-55
Ox Creek	199,680	Bottineau, Mc- Henry, Rolette	2-7-55
Salt Lake Branch- Forest River	127,600	Grand Forks Walsh	6-18-56
Square Butte Creek	195,200	Oliver, Morton	2-7-55
South Branch of the Park River	243,302	Cavalier, Pem- bina, Walsh	4-15-57
Starkweather Coulee	244,000	Ramsey, Cavalier	2-7-55
Upper Maple River	140,800	Barnes, Cass, Steele	2-7-55
Upper Turtle River	149,320	Grand Forks	6-18-56
Upper West Souris River	223,000	Renville, Ward	6-18-56
Veblen	115,000	Sargent, N.D. Marshall, S.D.	2-7-55
Wild Rice "B"	230,000	Richland	2-7-55
Willow Creek	166,400	Bottineau Rolette, McHenry	2-7-55

To the above list should be added the Tongue River Watershed Project designated as eligible for Federal assistance under the Watershed Protection item in the appropriation bill for fiscal year 1954. This project is located in Cavalier and Pembina Counties and was one of the original 58 pilot projects for watershed development.

**RESOLUTION GOVERNING
PARTICIPATION IN
RIGHTS-OF-WAY AND
DRAINAGE CLEAN OUTS**

The consensus of opinion was that participation in those projects would reduce the Commission fund to such a degree it would be ineffective in producing other worthwhile projects. It was moved by Commissioner Weinhandl and seconded by Commissioner Einar Dahl that the following resolution be adopted. All members voted aye and the resolution was adopted.

RESOLUTION

WHEREAS, the State Water Conservation Commission has received numerous requests to participate in the cost of acquiring rights-of-way for drains and watershed projects and also to participate in the cost of cleaning out drains, and

WHEREAS, participation in meeting such costs would reduce the amount appropriated to the Commission for participation in the construction of other urgently needed water projects to such an extent that funds would no longer be available for participation in the construction thereof.

THEREFORE, BE IT RESOLVED that the funds appropriated to the Commission for participation with local interests in meeting the cost of water projects shall not be used for acquisition of rights-of-way for drains or watershed projects nor for maintenance or cleaning out drains but that participation by this Commission in drainage projects shall only be confined to construction of drains for drainage of farm lands.

**ELLENDALE -
SURFACE DAM & CUT
OFF STRUCTURE IN
STONY CREEK**

Dr. Oster, council member from Ellendale called the Commission office relative to incorporating an underground dam with the cooperative survey being made by the Commission and the City at the present site. Secretary Holsveen stated that he had called Governor Davis relative to the urgency of the matter and it was agreed to go ahead although the Commission's participation was limited to \$1,500. The investigation of the Commission showed the crew would be required to go down about 24 feet to cut off the flow of Stony Creek. The City of Ellendale is pumping the under ground stream which lies below Stony Creek. The cut off trench in Stony Creek was the Commission's initial proposal as it would provide an opportunity to impound water. It was found necessary, in view of the large quantity of boulders in the creek bed and below the surface to go through the rock and intercept the clay. It will be necessary to put in a clay core in Stony Creek to effect the cut off. This project will undoubtedly run somewhere around \$6000, if a surface dam is constructed but there is no rush about that at this time. An additional \$1,500 is needed on a matched basis to accomplish this work. It was moved by Commissioner Lunseth and seconded by Commissioner Math Dahl that the Commission agrees to participate up to \$1,500. All commission members voted aye and the motion was carried.

**PATTERSON LAND
COMPANY WATER
RIGHT #800**

Commissioner Math Dahl brought up the matter of the rejection of the water right of the Patterson Land Company on Apple Creek. He stated that Mr.

Duemeland stated that the water is not to come out of Apple Creek but from ponds on their land. The map furnished by the Patterson Land Company does not indicate that the water is to be taken from their ponds. Secretary Hoisveen is to investigate the matter.

**CHAIN LAKES REQUEST
(LAKE IRVINE-LAKE
ALICE)**

The matter of the Mauvais Coulee Drainage Project was brought to the attention of the Commission. The problem area lies between Devils Lake and the Churchs Ferry area. The Chain Lakes Water Conservation and Flood Control District proposes to construct a portion of the channel and dike from the outlet of Lake Irvine to the Great Northern Railroad embankment. The Commission had previously surveyed and studied the construction from Lake Irvine to Devils Lake. The District has easements as far as the Great Northern Railroad. They feel that by starting such project that it would enhance their opportunity to obtain easements further down the coulee. The Commission has prepared cross sections and are preparing specifications so the District can let bids on this project. They are requesting participation on the part of the Commission. This is not a full project. It probably will involve a total expenditure of \$16,000. They would like to have the Commission participate on a 40% basis on a figure of \$16,000 to \$20,000. The Commission cooperated by putting in a control structure which is not being used but which will be used when this segment of the project is complete. It was moved by Commissioner Lunseth and seconded by Commissioner Weinhandl that the Commission participate on a 40% basis up to the railroad tracks. All commission members voted aye and the motion was carried.

**PURCHASE OF
AUTOMOBILE**

The Commission has a 1957 Plymouth car. It would cost \$165 to repair the car and put it in good working order. It was thought that maybe the Commission members would consider purchasing a new car or station wagon, using this car as a trade-in. It was moved by Commissioner Lunseth and seconded by Commissioner Einar Dahl that Secretary Hoisveen and Commissioner Earle Tucker be authorized to investigate the purchase of a new car, using the 1957 Plymouth as a trading stock. All commission members voted aye and the motion was carried.

**SALINE
WATER**

A committee from the Department of Interior, Office of Saline Water, Washington, D. C., is selecting a site to demonstrate its saline plant program. The sites chosen in North Dakota are Ellendale and Devils Lake. There is also a proposed site at Webster, South Dakota. A member of the Commission staff will meet this committee at Ellendale and take them to Devils Lake.

**NATIONAL
RECLAMATION
ASSOCIATION
REPRESENTATION**

The National Reclamation Association will hold a meeting in Denver on October 27, 28, 29 and 30. Usually the Commission has authorized the members of the Water Commission to attend this meeting. It was moved by Commissioner Lunseth and seconded by Commissioner Weinhandl that any of the commission members who can get away be authorized to attend the convention of the National Reclamation Association to be held in Denver. All members voted aye and the motion was carried.

MISSOURI BASIN
INTER-AGENCY
COMMISSION
MEETING

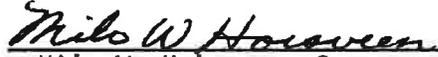
The Missouri Basin Inter-Agency meeting is being held in Watertown, South Dakota on October 15. Governor Davis is flying down in the National Guard plane and will be back the same day. It was suggested that as many as possible of the Commission members attend this meeting. Commissioners Tucker, Einar Dahl and Weinhandl stated they thought they would be able to attend this meeting.

EXHIBITS NATIONAL
RECLAMATION
ASSOCIATION
CONVENTION

It has been customary for the State Water Conservation Commission to have an exhibit at the National Reclamation Association Convention. Secretary Hoisveen asked if the Commission wished to again have exhibits at this convention. It was moved by Commissioner Lunseth and seconded by Commissioner Einar Dahl that the State Water Conservation Commission have an exhibit at the National Reclamation Association Convention at Denver. All commission members voted aye and the motion was carried.

The meeting adjourned at 4:30 p.m.

Respectfully submitted,


Milo W. Hoisveen, Secretary

ATTEST:


John E. Davis, Governor

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION
 MONTHLY REPORT OF APPROPRIATIONS AS OF OCTOBER 31, 1959
 1959-1961 APPROPRIATIONS

FUND	AVAILABLE FUNDS		DISBURSEMENTS		FUND BALANCES		
	APPROPRIATION	RECEIPTS	TO DATE	OCT '59	UNEXPENDED	ENCUMB.	UNENCUMB.
1. COMM PER DIEM & EXP	6,000.00	.00	489.08	177.00	5,510.92	.00	5,510.92
2. ADMINISTRATION	49,200.00	48.75	7,744.19	2,422.65	41,504.56	228.62	41,275.94
3. MTCR OF DAMS	115,000.00	4,147.32	64,855.64	35,266.79	54,291.68	52,806.58	1,485.10
4. INT'L & INTERSTATE EXP	10,000.00	.00	1,105.06	91.42	8,894.94	148.44	8,746.50
5. TOPOGRAPHIC SURVEYS, USGS	30,000.00	.00	.00	.00	30,000.00	30,000.00	.00
6. HYDROGRAPHIC SURVEYS, USGS	27,500.00	.00	.00	.00	27,500.00	17,500.00	10,000.00
7. ENGR & GEOL SURVEYS, USGS	57,500.00	.00	4,872.34	1,460.92	52,627.66	27,627.66	25,000.00
8. COOP WITH U. S. DEPT, ETC	57,000.00	.00	7,279.05	2,173.31	49,720.95	330.11	49,390.84
9. ENGINEERING INVESTIGATIONS	138,000.00	.00	22,436.84	5,423.03	115,563.16	1,533.04	114,030.12
10. ADM OF WATER LAWS	6,000.00	.00	823.50	.00	5,176.50	.00	5,176.50
11. OASIS CONTRIBUTIONS	6,500.00	.00	1,263.39	1,263.39	5,236.61	.00	5,236.61
20. MULTIPLE PURPOSE "CAR FWD"	178,751.98 200,000.00	2,334.63	27,497.15	987.22	353,589.46	194,068.66	159,520.80
21. CONST BOND GUAR "CAR FWD"	77,056.64	115.10	.00	.00	77,171.74	.00	77,171.74
	<u>958,508.62</u>	<u>6,645.80</u>	<u>138,366.24</u>	<u>49,265.73</u>	<u>826,788.18</u>	<u>324,243.11</u>	<u>502,545.07</u>

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION
MONTHLY REPORT OF APPROPRIATIONS AS OF OCTOBER 31, 1959
1957-1959 APPROPRIATIONS

FUND	AVAILABLE FUNDS		DISBURSEMENTS		FUND BALANCES		
	APPROPRIATION	RECEIPTS	TO DATE	OCT' 59	UNEXPENDED	ENCUMB.	UNENCUMB.
1. COMM PER DIEM & EXP	6,000.00	.00	5,476.38	.00	523.62	.00	523.62
2. ADMINISTRATION	47,000.00	2,079.34	48,919.63	270.50	159.71	.00	159.71
3. MTOE OF DAMS	105,000.00	101,910.58	206,910.58	11,532.14	.00	.00	.00
4. INT'L & INTERSTATE EXP	8,000.00	14.85	7,997.33	.00	17.52	.00	17.52
5. TOPOGRAPHIC SURVEYS, USGS	30,000.00	.00	30,000.00	.00	.00	.00	.00
6. HYDROGRAPHIC SURVEYS, USGS	27,500.00	.00	27,500.00	.00	.00	.00	.00
7. ENGR & GEOL SURVEYS, USGS	37,500.00	5,306.81	42,806.81	.00	.00	.00	.00
8. COOP WITH U. S. DEPT, ETC	50,000.00	10.00	50,004.93	.00	5.07	.00	5.07
9. SMALL PROJECTS, ETC	118,000.00	2,374.98	120,127.41	215.20	247.57	150.00	97.57
0. ADM OF WATER LAWS	6,000.00	.00	6,000.00	.00	.00	.00	.00
1. OASIS CONTRIBUTIONS	3,800.00	4,541.24	8,341.24	.00	.00	.00	.00
	<u>438,800.00</u>	<u>116,237.80</u>	<u>554,084.31</u>	<u>12,017.84</u>	<u>953.49</u>	<u>150.00</u>	<u>803.49</u>

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION
PAYROLL
OCTOBER 31, 1959

PERMANENT EMPLOYEES

NAME	POSITION	PAY GRADE	REMARKS	SALARY OCTOBER	WITH. TAX	SOC. SEC.	HOSP. INS.	BONDS	NET PAY
HOISVEEN, MILO W.	STATE ENGR	O-7	INC JUL' 59	904.67	132.00		12.60	18.75	741.32
BAESLER, GORDON	DRAFTSMAN	F-5	INC JUL' 59	354.67	44.10	8.87			301.70
COOPER, VERNON S.	ASST SEC'Y	M-5	INC JUL' 59	373.84	71.00	9.35	12.60		280.39
FREDRICKSON, FRED	COORDINATOR	G-3	INC JUL' 59	388.67	39.80	9.72			339.15
GEHRING, EDNA	FILE CLERK	C-6	INC JUL' 59	220.42	40.00	5.51	5.45		169.46
GRINDBERG, ALAN	ENGINEER	H-7	INC JUL' 59	491.67	78.20	12.29	5.45		395.73
HILAND, LEONE	CH STENO	F-5	STA JUN' 59	354.67	44.10	8.87	5.45		296.25
KOST, LLOYD E.	RODMAN	A-9	RES OCT' 59	185.00	23.50	4.63			156.87
KREBSBACH, JOSEPH	INST MAN	F-8	INC MAY' 59	383.17	18.40	9.58	12.60		342.59
MOSER, IRVIN	RODMAN	B-7	STA SEP' 59	216.34	28.16	5.41			182.77
PUTZ, ROY	MAT. EXP.	A-9	INC DEC' 57	185.00	13.50	4.63	5.45		161.42
REITER, DANIEL	FOREMAN	F-9	INC MAR' 59	392.67	31.30	9.82	12.60	18.75	320.20
SACKMAN, EUGENE	INST. MAN	F-5	INC MAR' 59	354.67	14.00	8.86	12.60		319.21
SANDWICK, HAZEN	ENGINEER	K-6	INC JUL' 59	651.67	68.80		12.60	37.50	532.77
SCHULZ, JIM	BOOKKEEPER	F-5	INC JUL' 59	354.67	44.10	8.87			301.70
SCHWINKENDORF, DONALD	RODMAN	B-10	INC AUG' 59	211.67	27.80	5.29			178.58
SILBERNAGEL, JACOB	RODMAN	B-7	INC AUG' 59	196.67	25.60	4.92			166.15
TIMM, ROBERT J.	ASST ST ENG	K-8	INC JUL' 59	685.67	76.00		12.60		597.07
VETTER, DALE	DRAFTSMAN	A-9	STA JUL' 59	185.00	23.50	4.63			156.87
MALTERSON, HOWARD	FOREMAN	F-9	PER MAR' 59	392.67	61.30	9.82	12.60		308.95
MALTERSON, JEAN	TYPIST	D-4	INC JUL' 59	245.25	13.90	6.13			225.22
ZIEGLER, VICTOR E.	ENGINEER	K-2	INC JUL' 59	583.67	66.20		12.60		484.87
				<u>8,312.40</u>	<u>1,005.26</u>	<u>137.20</u>	<u>135.20</u>	<u>75.00</u>	<u>6,959.74</u>

NORTH DAKOTA STATE WATER CONSERVATION COMMISSION

PAYROLL
OCTOBER 31, 1959

TEMPORARY EMPLOYEES

NAME	POSITION	HOURLY RATE	REMARKS	SALARY OCTOBER	WITH. TAX	SOC. SEC.	HOSP. INS.	BONDS	NET PAY
BURKHARDSMEIER, ALBERT	OPERATOR	1.95	INC OCT' 59	466.86	74.30	11.68			380.88
FLANAGAN, RAY	DRILLER	1.85	STA JUL' 59	222.00		5.55			216.45
HANSEN, ALVIN	LABORER	1.50	RES OCT' 59	171.00	2.50	4.28			164.22
HANSEN, G. R. EDWARD	LABORER	1.50	RES SEP' 59	15.00	2.40	.38			12.22
HANSEN, FREDERICK	LABORER	1.50	RES OCT' 59	216.00	31.90	5.41			178.69
JOHNSON, GEORGE T.	OPERATOR	1.85	INC JUL' 59	431.06	68.00	10.77			352.29
KNUTSON, LEWIS	DRILLER	2.05	INC JUL' 59	385.40	58.60	9.64			317.16
LAUINGER, ANTON B.	OPERATOR	1.90	INC JUN' 59	223.25	35.00	5.58			182.67
LEE, JEROME G.	LABORER	1.60	INC SEP' 59	365.60	56.80	9.14			299.66
LEE, ROGER	LABORER	1.60	INC SEP' 59	366.40	56.60	9.16			300.64
MCMASTER, GEORGE	DRILLER	2.65	INC JUL' 59	609.50	88.90	4.51			516.09
NEWGARD, DENNIS	LABORER	1.75	INC OCT' 59	227.98	35.25	5.70			187.03
PETERSON, JOHN J.	LABORER	1.75	INC OCT' 59	231.38	35.95	5.79			189.64
SCHWEIGERT, LUELLE	TYPIST	2.00	PART TIME	34.00	.75	.85			32.40
SILBERNAGEL, JOSEPH	DRILLER	2.10	RES OCT' 59	258.30	37.30	6.46			214.54
				<u>4,223.73</u>	<u>584.25</u>	<u>94.90</u>	<u>.00</u>	<u>.00</u>	<u>3,544.58</u>